

# PATENT ABSTRACTS OF JAPAN

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(71)Applicant : KYOCERA CORP

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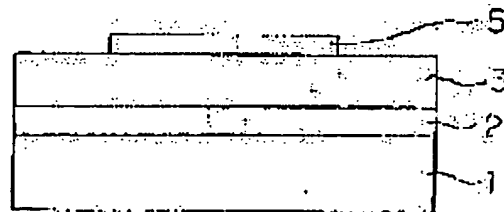
(72)Inventor : MISHIMA TSUNEO

## (54) VARIABLE CAPACITANCE CAPACITOR

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a variable capacitance capacitor the capacitance of which changes at a large changing rate, is sufficiently small in loss even under a high-frequency condition, and causes a linear frequency change against an impressed voltage when the capacitor constitutes an oscillator.

**SOLUTION:** This variable capacitance capacitor is constituted by forming electrodes 2 and 5 on both surfaces of a dielectric film 3. The thickness of the film 3 is adjusted to  $\leq 1 \mu\text{m}$  and the main crystal grains of the film 3 are composed of a perovskite type composite oxide containing at least Pb, Mg, and Nb as metallic elements and have a mean particle diameter of  $\leq 0.3 \mu\text{m}$ .



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